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(HCL/MAT)

SEQUENCE LISTING

<110> Bratzler, Robert L.
      Petersen, Deanna M.
      Fouron, Yves

<120> Immunostimulatory Nucleic Acids for the
      Treatment of Asthma and Allergy

<130> C1037/7013 (HCL/MAT)

<150> US 60/179,991
<151> 2000-02-03

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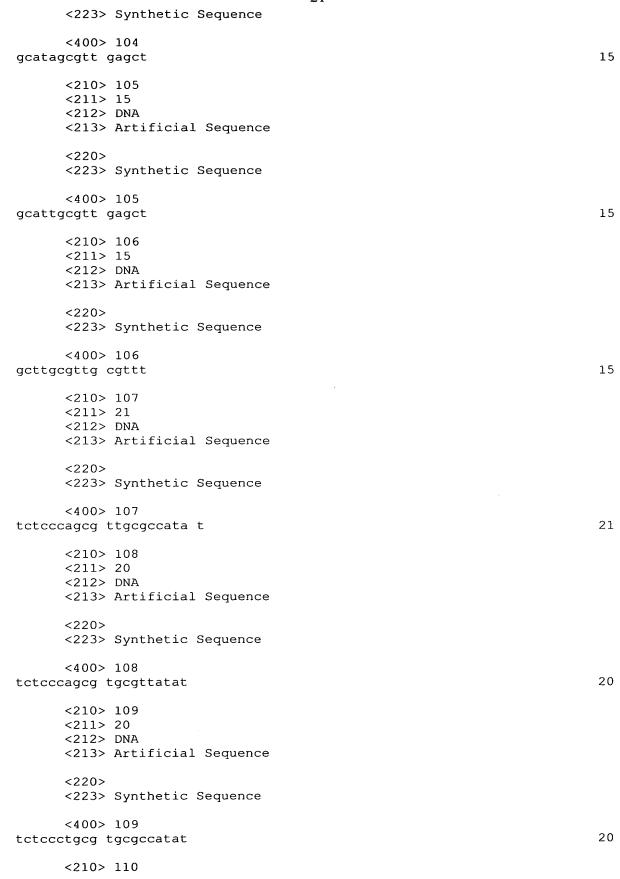
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ggcggcggcg gcggcggcgg                                                    20


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<210> 246
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tcgtcgtttt gtcgttttgt cgtt   24

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tcgtcgttgt cgttttgtcg tt   22

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gcgtgcgttg tcgttgtcgt t   21

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<223> m5c

<221> modified_base
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gcggcgggcg gcgcgcgccc                                                   20

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agncccgnga acgnattcac                                                   20

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tcgtcgtcgt cgtt   14

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tgtcgttgtc gtt   13

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cccccccccc cccccccccc   20

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tgcatccccc aggccaccat 20

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tcgtcgttgt cgttgtcgtt 20

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tcgtcgtttt gtcgttttgt cgtt 24

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<400> 263
tcgtcgttgt cgttttgtcg tt 22

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ggggagggag gaacttctta aaattccccc agaatgttt 39

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aaacattctg ggggaatttt aagaagttcc tccctcccc                    39


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atgtttactt cttaaaattc ccccagaatg ttt                          33


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aaacattctg ggggaatttt aagaagtaaa cat                          33


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ccccttgacg ttttcccccc   20

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acccgtcgta attatagtaa aaccc   25

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agcaccgaac gtgagagg   18

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tccatgccgt tcctgccgtt   20

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tccatgacgg tcctgacggt   20

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        <400> 282
ctggtctttc tggttttttt ctgg                                   24

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        <220>
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        <400> 283
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        <223> Synthetic Sequence

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        <220>
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        <400> 285
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        <400> 286
cccgaagtca tttcctctta acctgg                                 26
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<400> 287
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<223> m5c

<223> Synthetic Sequence

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tcctggnggg gaagt   15

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<223> m5c

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<223> m5c

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<223> m5c

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<223> Synthetic Sequence

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tccatgtcct tcctgatgct   20

<210> 292
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tccaagtagt tcctagttct   20

<210> 294
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tccatgtagt tcctagttct   20

<210> 295
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tcccgcgcgt tccgcgcgtt   20

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tcctggcggt cctggcggtt   20

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<400> 297
tcctggaggg gaagt   15

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tcctgggggg gaagt   15

<210> 299
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tcctggtggg gaagt   15

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tccatgacgt tcctgacgtt                                             20


<210> 303
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<400> 303
tccaggactt ctctcaggtt                                             20


<210> 304
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<221> modified_base
<222> (5)...(5)
<223> m5c

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tngtngtttt gtngttttgt ngtt                                        24


<210> 305
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<223> Conjugated to biotin moiety.

<223> Synthetic Sequence

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<220>
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<400> 306
gctatgacgt tccaaggg                                          18


<210> 307
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<400> 307
tcaacgtt                                                      8


<210> 308
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<220>
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<400> 308
tccaggactt tcctcaggtt                                        20


<210> 309
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<400> 309
ctctctgtag gcccgcttgg                                        20


<210> 310
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ctttccgttg gacccctggg   20

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gtccgggcca ggccaaagtc   20

<210> 312
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<220>
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<400> 312
gtgcgcgcga gcccgaaatc   20

<210> 313
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<223> I

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<223> I

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tccatgangt tcctgangtt   20

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<220>
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aatagtcgcc ataacaaaac   20

<210> 315

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<212> DNA
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<220>
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<400> 315
aatagtcgcc atggcggggc                                          20


<210> 316
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<223> Biotin moiety attached at 5' end of sequence.

<223> Synthetic Sequence

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<210> 317
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<220>
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<400> 317
tcctgtcgtt gaagtttttt                                          20


<210> 318
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<212> DNA
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<220>
<223> Synthetic Sequence

<400> 318
gctagcttta gagctttaga gctt                                     24


<210> 319
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<212> DNA
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<220>
<223> Synthetic Sequence

<400> 319
tgctgcttcc cccccccccc                                          20


<210> 320
<211> 20
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<213> Artificial Sequence

<220>
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<400> 320
tcgacgttcc cccccccccc   20

<210> 321
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<212> DNA
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<220>
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<400> 321
tcgtcgttcc cccccccccc   20

<210> 322
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<212> DNA
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<220>
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<400> 322
tcgtcgttcc cccccccccc   20

<210> 323
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<220>
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<400> 323
tcgccgttcc cccccccccc   20

<210> 324
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 324
tcgtcgatcc cccccccccc   20

<210> 325
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<220>
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<400> 325

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tcctgacgtt gaagt                                                    15

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        <220>
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        <400> 326
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        <210> 327
        <211> 15
        <212> DNA
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        <220>
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        <400> 327
tcctgacggt gaagt                                                    15

        <210> 328
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        <212> DNA
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        <220>
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        <400> 328
tcctgagctt gaagt                                                    15

        <210> 329
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        <212> DNA
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        <220>
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        <400> 329
tcctggcggg gaagt                                                    15

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        <400> 330
aaaatctgtg cttttaaaaa a                                             21

        <210> 331
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gatccagtca cagtgacctg gcagaatctg gat                                    33

<210> 332
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<400> 332
gatccagatt ctgccaggtc actgtgactg gat                                    33

<210> 333
<211> 33
<212> DNA
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<220>
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<400> 333
gatccagtca cagtgactca gcagaatctg gat                                    33

<210> 334
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<212> DNA
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<220>
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<400> 334
gatccagatt ctgctgagtc actgtgactg gat                                    33

<210> 335
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<220>
<221> modified_base
<222> (16)...(16)
<223> m5c

<223> Synthetic Sequence

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tcgtcgttcc cccccncccc                                                   20

<210> 336
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<221> modified_base
<222> (5)...(5)
<223> m5c

<223> Synthetic Sequence

<400> 336
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<220>
<221> modified_base
<222> (2)...(2)
<223> m5c

<223> Synthetic Sequence

<400> 337
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tngtcgttcc cccccccccc   20

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<210> 338
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<220>
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<223> m5c

<223> Synthetic Sequence

<400> 338
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tcgtngttcc cccccccccc   20

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<210> 339
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<220>
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<400> 339
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tcgtcgctcc cccccccccc   20

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tcgtcggtcc cccccccccc                                                    20

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        <220>
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        <400> 341
tcggcgttcc cccccccccc                                                    20

        <210> 342
        <211> 20
        <212> DNA
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        <220>
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        <400> 342
ggccttttcc cccccccccc                                                    20

        <210> 343
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        <400> 343
tcgtcgtttt gacgttttgt cgtt                                               24

        <210> 344
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        <220>
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        <400> 344
tcgtcgtttt gacgttttga cgtt                                               24

        <210> 345
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        <220>
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        <400> 345
ccgtcgttcc cccccccccc                                                    20

        <210> 346
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<400> 346
gcgtcgttcc cccccccccc                                                    20

<210> 347
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<400> 347
tcgtcattcc cccccccccc                                                    20

<210> 348
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<400> 348
acgtcgttcc cccccccccc                                                    20

<210> 349
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<400> 349
ctgtcgttcc cccccccccc                                                    20

<210> 350
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<220>
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<222> (1)...(3)
<223> Biotin moiety attached at 5' end of sequence.

<223> Synthetic Sequence

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tttttcgtcg ttcccccccc cccc                                               24

<210> 351
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<212> DNA
<213> Artificial Sequence
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<220>
<221> misc_feature
<222> (18)...(20)
<223> Biotin moiety attached at 3' end of sequence.

<223> Synthetic Sequence

<400> 351
tcgtcgttcc cccccccccc                                              20


<210> 352
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (22)...(24)
<223> Biotin moiety attached at 3' end of sequence.

<223> Synthetic Sequence

<400> 352
tcgtcgtttt gtcgttttgt cgtt                                         24


<210> 353
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 353
tccagttcct tcctcagtct                                              20


<210> 354
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<212> DNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (2)...(2)
<223> m5c

<223> Synthetic Sequence

<400> 354
tngtcgtttt gtcgttttgt cgtt                                         24


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        <210> 737
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        <400> 737   15
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        <210> 738
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        <210> 739
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<223> Biotin moiety attached at 5' end of sequence.

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gctagacgtt agtgt   15

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15

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<221> modified_base
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<400> 777
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<400> 778
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<210> 779
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<400> 779
cgtcgtcgtc gtcgtcgtcg t   21

<210> 780
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<400> 780
ctgctgctgc tgctgctgct g   21

<210> 781
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<400> 781

gagaacgctc cgaccttcga t   21

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        <223> Conjugated to FITC moiety.

        <223> Synthetic Sequence

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        <223> Conjugated to FITC moiety.

        <223> Synthetic Sequence

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<223> Conjugated to biotin moiety.

<223> Synthetic Sequence

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<223> Synthetic Sequence

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gcaatattgc                                                                    10

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<223> Conjugated to FITC moiety.

<223> Synthetic Sequence

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<210> 790
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<220>
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<210> 791
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<400> 792                                                                   19
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<210> 793
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<210> 794
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<400> 795                                                                   12
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<210> 796
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<400> 796
ggggttgggg gtt

13

<210> 797
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<400> 797
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17

<210> 798
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<221> modified_base
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<223> m5c

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20

<210> 799
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<220>
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<400> 799
tcaacgttaa cgttaacgtt

20

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<223> Conjugated to biotin moiety.

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<223> m5c

<223> Synthetic Sequence

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        <223> Conjugated to biotin moiety.


        <221> modified_base
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        <223> m5c


        <223> Synthetic Sequence


        <400> 801
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        <210> 802
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        <221> misc_feature
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        <223> Conjugated to biotin moiety.


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        <210> 804
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<220>
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<400> 806
tccatgacgt tcctgatgct   20

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<400> 807
tgcatgccgt gcatccgtac acagctct   28

<210> 808
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<400> 809
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12

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<400> 810
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8

<210> 811
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<400> 811
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20

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<220>
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<400> 812
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12

<210> 813
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<400> 813
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8

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12

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tgcatgccgt acacagctct   20

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gagcaagctg gaccttccat   20

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<210> 818
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<400> 818
gagaacgctc gaccttcgat   20

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gtccccattt cccagaggag gaaat   25

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ctagcggctg acgtcatcaa gctag   25

<210> 821
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<400> 821
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<210> 823
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<210> 825
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ctcgccccgc cccgatcgaa t   21

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<210> 829
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        <220>
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        <400> 832
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        <212> DNA
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        <220>
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        <400> 833
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        <210> 834
        <211> 26
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        <220>
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        <400> 834
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        <210> 835
        <211> 15
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        <210> 837
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<400> 837
ttaagaccaa taccgctacc accg   24

<210> 838
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gatctagtga tgagtcagcc ggatc   25

<210> 839
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<210> 840
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<400> 840
tccaagacgt tcctgatgct   20

<210> 841
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<400> 842
tccaccacgt ggctgatgct   20

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<210> 844
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tcagaccacg tggtcgggtg ttcctga                                   27


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<210> 847
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<210> 850
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<400> 850
gaaactgctg ctagtttcgc tttat   25

<210> 851
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<210> 852
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<400> 852
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<210> 853
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backbone with phosphodiester on 3' end.

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